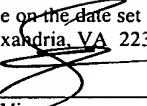


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Date of Signature and Deposit: July 24, 2007


Sara D. Vinarov



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Thomas P. Zwaka
James A. Thomson

Date: July 24, 2007

Serial No.: 10/774,122

Group Art Unit: 1633

Filed: 02/06/2004

Examiner: Maria Marvich

Title: DIRECTED GENETIC MODIFICATIONS
OF HUMAN STEM CELLS

File No.: 960296.99021

Confirmation No.: 8384

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

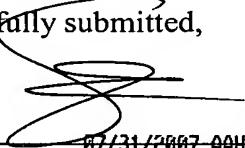
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Commissioner For Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is a completed Form PTO-1449 listing additional documents that the applicants in the above-identified application wish to bring to the attention of the Examiner for consideration in connection with the examination on the merits of this application.

A fee in the amount of \$180.00 is believed to be due. Please charge this fee to Deposit Account No. 17-0055.

Respectfully submitted,


Sara D. Vinarov 07/31/2007 AHMAD1 00000012-170055 10774122
Reg. No. 48,524 H2 FC:1806 180.00 DA
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/774,122
Filing Date	02/06/2004
First Named Inventor	Thomas Zwaka
Art Unit	1633
Examiner Name	Maria Marvich
Attorney Docket Number	960296.99021

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 93/04169	03/04/1993	Berns et al.		

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/774,122
				Filing Date	02/06/2004
				First Named Inventor	Thomas Zwaka
				Art Unit	1633
				Examiner Name	Maria Marvich
Sheet	2	of	2	Attorney Docket Number	
960296.99021					

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
		MARCHIONE, M., "Scientists swap genes in human stem cells," Milwaukee Journal Sentinel February 1, 2003				
		"UW Scientists Swap Genes in Human Stem Cells, Genomics & Genetics Weekly March 7, 2003				
		VASQUEZ, K.M., et al., "Manipulating the mammalian genome by homologous recombination," PNAS 98:8403-9410 (2001)				

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